

IBM Docket #:SVL920010056US1

Application # 09/895,055

1 Amendments to the Claims

2

3 This listing of claims will replace all prior versions, and listings, of claims in the  
4 application:

5

6 Listing of Claims:

7

8 1. (currently amended) A computer implemented method for facilitating trick mode  
9 playback for a user, comprising:  
10 accessing a plurality of encoded digital video frames and encoded digital audio frames  
11 on a first computer system;  
12 identifying a subset of said encoded digital video frames for compressed video  
13 encoding;  
14 identifying a subset of said encoded digital audio frames for compressed audio  
15 encoding;  
16 for all said identified encoded digital video frames, encoding an associated playback  
17 video frame;  
18 for all said identified encoded digital audio frames, encoding an associated playback  
19 audio frame;  
20 downloading said encoded playback video frames and said encoded playback audio  
21 frames on a second computer system;  
22 streaming said encoded digital video frames and said encoded digital audio frames to  
23 said second computer system thereby minimizing resources of said second  
24 computer system;  
25 decoding said digital video frames and said playback video frames;  
26 decoding said digital audio frames and said playback audio frames;  
27 if said user directs, incrementally playing said digital video frames or said playback  
28 video frames;  
29 if said user directs, incrementally playing said digital audio frames or said playback  
30 audio frames;  
31 enabling said user to switch between playing said digital video frames and said  
32 playback video frames;  
33 enabling said user to switch between playing said digital audio frames and said  
34 playback audio frames;  
35 enabling said user to change location of playing said playback video frames; [and]  
36 enabling said user to change location of playing said playback audio frames;

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1 when switching from playing said playback video frames to playing said digital video  
2 frames, matching playing of said digital video frames with said location of  
3 playing said playback video frames; and  
4 when switching from playing said playback audio frames to playing said digital audio  
5 frames, matching playing of said digital audio frames with said location of  
6 playing of said playback audio frames.

7  
8 2. (original) The method of Claim 1 further comprising said second computer system  
9 including a data server computer system and a client computer system.

10  
11 3. (original) The method of Claim 1 further comprising said first computer system  
12 including an initiating computer system and a data server computer system.

13  
14 4. (original) The method of Claim 1 further comprising, when said user directs  
15 incrementally playing said playback video frames, enabling said user to direct playing of  
16 said playback video frames in either a forward direction or a reverse direction.

17  
18 5. (original) The method of Claim 1 further comprising:  
19 playing said digital video frames via a digital window on said second computer system;  
20 and  
21 playing said playback video frames via a preview window on said second computer  
22 system.

23  
24 6. (original) The method of Claim 1 further comprising:  
25 playing said digital video frames via a digital window on said second computer system;  
26 and  
27 playing said playback video frames via overlaying a preview window on said digital  
28 window.

29  
30 7. (currently amended) A computer implemented method for facilitating fast audio  
31 playback for a user, comprising:  
32 accessing a plurality of encoded digital audio frames on a first computer system;  
33 identifying a subset of said encoded digital audio frames for compressed audio  
34 encoding;

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- for all said identified encoded digital audio frames, encoding an associated playback audio frame;  
downloading said encoded playback audio frames on a second computer system;  
streaming said encoded digital audio frames to said second computer system thereby minimizing resources of said second computer system;  
decoding said digital audio frames and said playback audio frames;  
if said user directs, incrementally playing said digital audio frames or said playback audio frames;  
enabling said user to switch between playing said digital audio frames and said playback audio frames;  
enabling said user to change location of playing said playback audio frames; and  
when switching from playing said playback audio frames to playing said digital audio frames, matching playing of said digital audio frames with said location of playing of said playback audio frames.
8. (original) The method of Claim 7 further comprising said second computer system including a data server computer system and a client computer system.
9. (original) The method of Claim 7 further comprising said first computer system including an initiating computer system and a data server computer system.
10. (original) The method of Claim 7 further comprising:  
playing said digital audio frames via a digital window on said second computer system;  
and  
playing said playback audio frames via a preview window on said second computer system.
11. (original) The method of Claim 10 further comprising:  
associating audio attributes with said playback audio frames; and  
representing said associated audio attributes on said preview window.
12. (currently amended) A computer implemented method for facilitating trick mode playback for a user, comprising:  
accessing a plurality of encoded digital video frames and a plurality of encoded digital audio frames on a first computer system;

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1 identifying a subset of said encoded digital video frames for compressed video encoding;  
2 identifying a subset of said encoded digital audio frames for compressed audio encoding;  
3 for all said identified encoded digital video frames, encoding an associated playback  
4 video frame;  
5 for all said identified encoded digital audio frames, encoding an associated playback  
6 audio frame;  
7 downloading said encoded playback video frames and said encoded playback audio  
8 frames on a second computer system;  
9 multiplexing said encoded digital video frames and said encoded digital audio frames on  
10 said first computer system;  
11 streaming said multiplexed digital frames to said second computer system thereby  
12 minimizing resources of said second computer system;  
13 de-multiplexing said multiplexed digital frames;  
14 decoding said encoded digital video frames, said encoded digital audio frames, said  
15 encoded playback video frames, and said encoded playback audio frames; and  
16 if said user directs:  
17 synchronizing said digital video frames and said digital audio frames and playing said  
18 synchronized digital video frames and digital audio frames; or  
19 synchronizing said playback video frames and said playback audio frames and  
20 playing said synchronized playback video frames and playback audio  
21 frames;  
22 enabling said user to switch between playing said synchronized digital video frames and  
23 digital audio frames and said synchronized playback video frames and  
24 playback audio frames;  
25 enabling said user to change location of playing said synchronized playback video frames  
26 and playback audio frames; and  
27 when switching to playing said synchronized digital video frames and digital audio  
28 frames, matching playing of said synchronized digital video frames and digital  
29 audio frames with said location of playing of said synchronized playback  
30 video frames and playback audio frames.

31  
32 13. (original) The method of Claim 12 further comprising said second computer system  
33 including a data server computer system and a client computer system.  
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1 14. (original) The method of Claim 12 further comprising said first computer system  
2 including an initiating computer system and a data server computer system.  
3

4 15. (original) The method of Claim 12 further comprising:  
5 playing said synchronized digital video frames and digital audio frames via a digital  
6 window on said second computer system; and  
7 playing said synchronized playback video frames and playback audio frames via a  
8 preview window on said second computer system.  
9

B' 10 16. (original) The method of Claim 12 further comprising:  
11 playing said synchronized digital video frames and digital audio frames via a digital  
12 window on said second computer system; and  
13 playing said synchronized playback video frames and playback audio frames via  
14 overlaying a preview window on said digital window.  
15

16 17. (currently amended) A computer implemented method for facilitating trick mode  
17 playback on a computer system for a user, comprising:  
18 accessing a plurality of encoded digital video frames and a plurality of encoded  
19 digital audio frames;  
20 identifying a subset of said encoded digital video frames for compressed video  
21 encoding;  
22 identifying a subset of said encoded digital audio frames for compressed audio  
23 encoding;  
24 for all said identified encoded digital video frames, encoding an associated playback  
25 video frame;  
26 for all said identified encoded digital audio frames, encoding an associated playback  
27 audio frame;  
28 downloading said encoded playback video frames and said encoded playback audio  
29 frames on said computer system;  
30 decoding said digital video frames and said playback video frames on said computer  
31 system;  
32 decoding said digital audio frames and said playback audio frames on said computer  
33 system;  
34 if said user directs, incrementally playing said digital video frames or said playback  
35 video frames;

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1 if said user directs, incrementally playing said digital audio frames or said playback  
2 audio frames;  
3 enabling said user to switch between playing said digital video frames and said  
4 playback video frames;  
5 enabling said user to switch between playing said digital audio frames and said  
6 playback audio frames;  
7 enabling said user to change location of playing said playback video frames; [and]  
8 enabling said user to change location of playing said playback audio frames;  
9 when switching from playing said playback video frames to playing said digital video  
10 frames, matching playing of said digital video frames with said location of  
11 playing said playback video frames; and  
12 when switching from playing said playback audio frames to playing said digital audio  
13 frames, matching playing of said digital audio frames with said location of  
14 playing of said playback audio frames.

15  
16 18. (original) A computer implemented method for facilitating fast audio playback on a  
17 computer system for a user, comprising:  
18 accessing a plurality of encoded digital audio frames;  
19 identifying a subset of said encoded digital audio frames for compressed audio  
20 encoding;  
21 for all said identified encoded digital audio frames, encoding an associated playback  
22 audio frame;  
23 downloading said encoded playback audio frames on said computer system;  
24 decoding said digital audio frames and said playback audio frames on said computer  
25 system;  
26 if said user directs, incrementally playing said digital audio frames or said playback  
27 audio frames;  
28 enabling said user to switch between playing said digital audio frames and said  
29 playback audio frames;  
30 enabling said user to change location of playing said playback audio frames; and  
31 when switching from playing said playback audio frames to playing said digital audio  
32 frames, matching playing of said digital audio frames with said location of  
33 playing of said playback audio frames.  
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1 19. (currently amended) An article of manufacture comprising a program storage  
2 medium readable by a computer and embodying one or more instructions executable by  
3 said computer for causing a computer system to facilitate trick mode playback for a user,  
4 comprising:  
5     accessing a plurality of encoded digital video frames and a plurality of encoded  
6     digital audio frames on a first computer system;  
7     identifying a subset of said encoded digital video frames for compressed video encoding;  
8     identifying a subset of said encoded digital audio frames for compressed audio encoding;  
9     for all said identified encoded digital video frames, encoding an associated playback  
10     video frame;  
11     for all said identified encoded digital audio frames, encoding an associated playback  
12     audio frame;  
13     downloading said encoded playback video frames and said encoded playback audio  
14     frames on a second computer system;  
15     streaming said encoded digital video frames and said encoded digital audio frames to said  
16     second computer system thereby minimizing resources of said second  
17     computer system;  
18     decoding said digital video frames and said playback video frames;  
19     decoding said digital audio frames and said playback audio frames;  
20     if said user directs, incrementally playing said digital video frames or said playback video  
21     frames;  
22     if said user directs, incrementally playing said digital audio frames or said playback audio  
23     frames;  
24     enabling said user to switch between playing said digital video frames and said playback  
25     video frames;  
26     enabling said user to switch between playing said digital audio frames and said playback  
27     audio frames;  
28     enabling said user to change location of playing said playback video frames;  
29     enabling said user to change location of playing said playback audio frames; [and]  
30     when switching from playing said playback video frames to playing said  
31     digital video frames, matching playing of said digital video frames with said location of  
32     playing said playback video frames; and  
33     when switching from playing said playback audio frames to playing said digital audio  
34     frames, matching playing of said digital audio frames with said location of  
35     playing of said playback audio frames.

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2 20. (original) The article of manufacture of Claim 19 further comprising said second  
3 computer system including a data server computer system and a client computer system.  
4

5 21. (original) The article of manufacture of Claim 19 further comprising said first  
6 computer system including an initiating computer system and a data server computer  
7 system.  
8

9 22. (currently amended) An article of manufacture comprising a program storage  
10 medium readable by a computer and embodying one or more instructions executable by  
11 said computer for causing a computer system to facilitate fast audio playback for a user,  
12 comprising:  
13 accessing a plurality of encoded digital audio frames on a first computer system;  
14 identifying a subset of said encoded digital audio frames for compressed audio encoding;  
15 for all said identified encoded digital audio frames, encoding an associated playback  
16 audio frame;  
17 downloading said encoded playback audio frames on a second computer system;  
18 streaming said encoded digital audio frames to said second computer system thereby  
19 minimizing resources of said second computer system;  
20 decoding said digital audio frames and said playback audio frames;  
21 if said user directs, incrementally playing said digital audio frames or said playback audio  
22 frames;  
23 enabling said user to switch between playing said digital audio frames and said playback  
24 audio frames;  
25 enabling said user to change location of playing said playback audio frames; and  
26 when switching from playing said playback audio frames to playing said digital audio  
27 frames, matching playing of said digital audio frames with said location of  
28 playing of said playback audio frames.  
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30 23. (previously presented) The article of manufacture of Claim 22 further comprising  
31 said second computer system including a data server computer system and a client  
32 computer system.  
33



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1 24. (previously presented) The article of manufacture of Claim 22 further comprising  
2 said first computer system including an initiating computer system and a data server  
3 computer system.  
4

5 25. (currently amended) A computer system for facilitating trick mode playback for a  
6 user, comprising:

7 a plurality of encoded digital video frames on a first said computer system;

8 a plurality of encoded digital audio frames on said first computer system;

9 a subset of said encoded digital video frames that are identified for compressed video  
10 encoding;

11 a subset of said encoded digital audio frames that are identified for compressed audio  
12 encoding;

13 for all said identified encoded digital video frames, an associated encoded playback video  
14 frame;

15 for all said identified encoded digital audio frames, an associated encoded playback audio  
16 frame;

17 said encoded playback video frames that are downloaded on a second said computer  
18 system;

19 said encoded playback audio frames that are downloaded on said second computer  
20 system;

21 said encoded digital video frames and said encoded digital audio frames that are streamed  
22 to said second computer system thereby minimizing resources of said second  
23 computer system;

24 said digital video frames that are decoded from said encoded digital video frames;

25 said digital audio frames that are decoded from said encoded digital audio frames;

26 said playback video frames that are decoded from said encoded playback video frames;

27 said playback audio frames that are decoded from said encoded playback audio frames;

28 while said user directs:

29 said digital video frames being incrementally played on said second computer  
30 system; or

31 said playback video frames being incrementally played on said second  
32 computer system;

33 while said user directs:

34 said digital audio frames being incrementally played on said second computer  
35 system; or

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B' 1 said playback audio frames being incrementally played on said second  
2 computer system;  
3 a location of playing said playback video frames being changed by said user;  
4 a location of playing said playback audio frames being changed by said user; [and]  
5 said location of playing facilitating synchronized playing of said digital video frames  
6 when said user directs playing said digital video frames after playing said  
7 playback video frames; and  
8 said location of playing facilitating synchronized playing of said digital audio frames  
9 when said user directs playing said digital audio frames after playing said  
10 playback audio frames.  
11

- 12 26. (original) The computer system of Claim 25 further comprising said second  
13 computer system including a data server computer system and a client computer system.  
14  
15 27. (original) The computer system of Claim 25 further comprising said first computer  
16 system including an initiating computer system and a data server computer system.  
17

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- 1 28. (currently amended) A computer system for facilitating fast audio playback for a user,  
2 comprising:  
3 a plurality of encoded digital audio frames on a first said computer system;  
4 a subset of said encoded digital audio frames that are identified for compressed audio encoding;  
5 for all said identified encoded digital audio frames, an associated encoded playback audio frame;  
6 said encoded playback audio frames that are downloaded on a second said computer system;  
7 said encoded digital audio frames that are streamed to said second computer system thereby  
8 minimizing resources of said second computer system;  
9 said digital audio frames that are decoded from said encoded digital audio frames;  
10 said playback audio frames that are decoded from said encoded playback audio frames;  
11 while said user directs:  
12 said digital audio frames being incrementally played on said second computer system; or  
13 said playback audio frames being incrementally played on said second computer system;  
14 a location of playing said playback audio frames being changed by said user; and  
B' 15 said location of playing facilitating synchronized playing of said digital audio frames when said user  
16 directs playing said digital audio frames after playing said playback audio frames.  
17
- 18 29. (original) The computer system of Claim 28 further comprising said second computer system  
19 including a data server computer system and a client computer system.  
20
- 21 30. (original) The computer system of Claim 28 further comprising said first computer system  
22 including an initiating computer system and a data server computer system.  
23
- 24 31. (new) The method of Claim 1 further comprising said encoded digital video frames and  
25 encoded digital audio frames including time stamp information.  
26
- 27 32. (new) The method of Claim 7 further comprising said encoded digital video frames and  
28 encoded digital audio frames including time stamp information.  
29

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